

CLAIM AMENDMENTS

Please replace the pending claim list with the following claim list:

- 1-18. (Cancelled)
19. (New) The activation of PECAM-1 for modifying or reducing or inhibiting platelet activation, or platelet aggregation, or platelet segregation.
20. (New) The activation claimed in claim 19 wherein the activation comprises cross-linking PECAM-1.
21. (New) The activation claimed in claim 19 wherein the activation comprises antibody mediated cross-linking.
22. (New) The activation claimed in claim 21 wherein the antibody is specific for the ectodomain of PECAM-1.
23. (New) The activation claimed in claim 21 further comprising a secondary antibody.
24. (New) The activation claimed in claim 19 wherein the activation comprises phosphorylation of PECAM-1.

25. (New) The activation claimed in claim 24 wherein the phosphorylation occurs at the cytoplasmic tail of PECAM-1.

26. (New) The activation claimed in claim 24 wherein the phosphorylation occurs within the ITIM of PECAM-1.

27. (New) The activation claimed in claim 24 wherein PECAM-1 is phosphorylated at tyrosine residues.

28. (New) The activation of cross-linking or phosphorylation of PECAM-1 claimed in claim 19 for the treatment of or for reducing the occurrence of cardiovascular diseases such as thrombosis, vascular occlusion or stroke, or for the treatment of or for reducing the occurrence of haemostasis disorders.

29. (New) The activation claimed in claim 19 wherein the activation or cross-linking or phosphorylation of PECAM-1 modifies or inhibits or decreases any one selected from the group comprising: total tyrosine phosphorylation, platelet protein phosphorylation, platelet secretion from dense granules, mobilization of calcium from intracellular stores, production of inositol phosphates, and regulation of integrin-linked kinase.

30. (New) The activation or cross-linking or phosphorylation of PECAM-1 as claimed in claim 19 for inhibiting or modifying or reducing platelet activation stimulated by ITAM or non-ITAM containing receptors or receptor agonists.

31. (New) The activation or cross-linking or phosphorylation of PECAM-1 as claimed in claim 30 for inhibiting or reducing or modifying the activation, aggregation or secretion of platelets in response to any one selected from the group comprising; collagen, collagen related peptide (CRP), convulxin, thrombin, ADP, thromboxane mimetics, U46619, immunoglobulin G FcγRIIA (FcγRIIA), immunoglobulin E FcεRI (FcεRI), tyrosine kinase, GPVI- mediated signalling and thrombin receptor mediated signalling.

32. (New) A PECAM-1 activator for use in accordance with claim 19.

33. (New) An activator as claimed in claim 32 wherein the activator is selected from the group comprising; a small molecule, an antibody, an antibody derivative, an agonist, an antagonist, a ligand, a DNA sequence, a complementary DNA sequence, an antisense DNA sequence, a probe, a protein sequence, a recombinant extracellular domain or domains of PECAM-1, a catalyst, shear, oxidative stress, FcεRI, the high affinity receptor for FcεRI, an activated form of the high affinity receptor FcεRI, FcγRIIA, the low affinity receptor for FcγRIIA and an activated form of the low affinity receptor FcγRIIA.

34. (New) The activator claimed in claim 32 for the treatment of or for reducing the occurrence of cardiovascular diseases such as thrombosis, vascular occlusion or stroke, or for the treatment of or for reducing the occurrence of haemostasis disorders.

35. (New) The activator claimed in claim 32 for the use in the manufacture of a medicament for the treatment of or for reducing the occurrence of cardiovascular diseases such as thrombosis, vascular occlusion or stroke, or for the treatment of or for reducing the occurrence of haemostasis disorders.

36. (New) A screen for activators of PECAM-1 comprising PECAM-1, an ectodomain of PECAM-1, the cytoplasmic tail of PECAM-1, the ITIM of PECAM-1, an active site of PECAM-1, a recombinant extracellular domain or domains of PECAM-1, or a part or derivative thereof and means for detecting activation or cross-linking or phosphorylation or tyrosine phosphorylation of PECAM-1, an ectodomain of PECAM-1, the cytoplasmic tail of PECAM-1, the IPIM of PECAM-1, an active site of PECAM-1, a recombinant extracellular domain or domains of PECAM-1 or a part or derivative thereof.